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EXAMINER RIVIERE, HEIDI M				
ART UNIT 3689		PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

hoip@lockelord.com

Office Action Summary**Application No.**

10/799,826

Applicant(s)FORGET SHIELD, DANIELLE
RENEE**Examiner**

HEIDI RIVIERE

Art Unit

3689

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 April 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to the rejections of **claims 1-23** under **Mahany et al. (US 5,657,317)** have been considered and are partially persuasive. Therefore, the rejection has been partially withdrawn. Despite Applicants arguments to the contrary, Mahany does in fact have a portable wireless system able to relay "preliminary invoices". Applicant argues this reference fails to teach a waste management system does in fact teach "the placement of any of the access points is at a location that is known relative to a reference location within an airport". Applicant also incorrectly argues that Hassett does not teach what Applicant claims which is a waste management system. Contrary to Applicant's arguments Hassett teaches the processing of waste management data. (col. 3, line 63-col. 4, line 10) Contrary to Applicant's argument Hassett teaches the tracking of waste related data. (col. 4, lines 11-55 – used of a transponder to track waste) Upon further consideration, a new ground(s) of rejection are made in view of **Kasik (US 6,448,898 B1)** that disclose Applicants invention. Furthermore, Hassett combined with Kasik teach a system of waste management that not only tracks waste data but also provides storage for the waste during transport and billing information to customers.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. **Claims 2 and 16** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 2 and 16 state "a waste removal vehicle and a waste storage unit selectively coupled with the waste removal vehicle". Does applicant contend that there are three units involved in the system or just two? Are there two waste removal vehicles involved in the system or just one?

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. **Claims 1, 3-15, 17-23** are rejected under 35 U.S.C. 102(b) as being anticipated by **Kasik (US 6,448,898 B1)**.

6. **With respect to claim 1:** Kasik discloses:

a. a waste management electronic base system having a memory, processor, an input element, and an output element, the base system adapted to process waste management data for tracking a location of a waste storage unit, billing a customer associated with a waste removal,

and paying personnel for services associated with the waste removal; (col. 5, lines 5-19; col. 7, lines 5-64; col. 9, lines 14-63; col. 10, lines 3-12, 27-67 – data obtained and transmitted from service vehicle; container flag position and collection frequency factor into labor costs; data collected used to bill customers; data collected is processed by the waste collection system) and

b. an electronic portable unit having a memory, processor, an input element, and an output element, the portable unit adapted to allow an operator during a waste removal to use the portable unit and to allow onsite input at a customer facility from preprogrammed queries regarding the waste removal and further being adapted to generate an output of the data to the base system for processing. (col. 5, lines 5-19; col. 7, lines 5-64; col. 9, lines 14-63; col. 10, lines 3-12, 27-67 – data obtained and transmitted from service vehicle at collection site; containers are marked and can contain barcodes; markings can be read to provide customer address; container flag position and collection frequency factor into labor costs; data collected used to bill customers; data collected is processed by the waste collection system).

7. **With respect to claims 3 and 17:** Kasik teaches the waste comprises industrial waste and the system is adapted to comply with a manifest associated with the industrial waste. (col. 5, lines 5-18; col. 6, lines 44-67; col. 8, lines 30-47; col. 9, lines 50-62 - system contains pre-programmed information about the customer and site; this information is part of the auditing system used in the

refuse collection process containing subscriber information such as name, address or customer number)

Furthermore, the data identifying type of waste is non-functional descriptive data.

When presented with a claim comprising descriptive material, an Examiner must determine whether the claimed nonfunctional descriptive material should be given patentable weight. The Patent and Trademark Office (PTO) must consider all claim limitations when determining patentability of an invention over the prior art. *In re Gulack*, 703 F.2d 1381, 1385, 217 USPQ 401,404 (Fed. Cir. 1983). The PTO may not disregard claim limitations comprised of printed matter. *See Gulack*, 703 F.2d at 1384-85, 217 USPQ at 403; *see also Diamond v. Diehr*, 450 U.S. 175, 191, 209 USPQ 1, 10 (1981). However, the examiner need not give patentable weight to descriptive material absent a new and unobvious functional relationship between the descriptive material and the subset. *See In re Lowry*, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994); *In re Ngai*, 367 F.3d 1336, 1338, 70 USPQ2d 1862, 1863-64 (Fed. Cir. 2004). Thus, when the prior art describes all the claimed structural and functional relationships between the descriptive material and the subset, but the prior art describes a different descriptive material than the claim, then the descriptive material is nonfunctional and will not be given any patentable weight. That is, such a scenario presents no new and unobvious functional relationship between the descriptive material and the subset.

The Examiner asserts that the data identifying type of waste adds little, if anything, to the claimed acts or steps and thus do no serve as limitations on the claims to distinguish over the prior art. MPEP 2106IV b 1(b) indicates that "nonfunctional descriptive material" is material "that cannot exhibit any functional interrelationship with the way the steps are performed". Any differences related merely to the meaning and information conveyed through data, which does not explicitly alter or impact the steps is non-functional descriptive data. The subjective interpretation of the data does not patentably distinguish the claimed invention.

8. **With respect to claim 4:** Kasik teaches the base system generates a manifest based on information from a generator of waste obtained from the portable unit. (col. 5, lines 5-18; col. 6, lines 44-67; col. 8, lines 30-47; col. 9, lines 50-62 - system contains pre-programmed information about the customer and site; this information is part of the auditing system used in the refuse collection process containing subscriber information such as name, address or customer number; col. 5, lines 5-19; col. 7, lines 5-64; col. 9, lines 14-63; col. 10, lines 3-12, 27-67 – data obtained and transmitted from service vehicle at collection site; containers are marked and can contain barcodes; markings can be read to provide customer address; container flag position and collection frequency factor into labor costs; data collected used to bill customers; data collected is processed by the waste collection system)

9. **With respect to claims 5 and 20:** Kasik teaches the onsite input allows operator input, automatic input, or a combination thereof. (col. 7, line 35-col. 8, line 47 – process of inputting data from waste container is done automatically).
10. **With respect to claims 6 and 21:** Kasik teaches the onsite input comprises a scanner, keyboard, touch screen, wireless interface, voice recognition interpreter, preprogrammed cards, or a combination thereof. (col. 9, line 50-col. 10, line 36 - service vehicle has wireless system).
11. **With respect to claim 7:** Kasik teaches the portable unit output comprises a wireless interface with the base system. (col. 9, line 50-col. 10, line 36 – wireless LAN system).
12. **With respect to claim 8:** Kasik teaches the system further comprises multiple portable units for multiple operators during their respective routes for multiple waste removals. (col. 10, lines 55-60 – system allows more than one data access points).
13. **With respect to claims 9 and 13:** Kasik teaches the base system is adapted to provide download information to the portable unit, the information containing instructions to the operator for a route of the operator. (col. 7, lines 35-67; col. 8, lines 16-65; col. 9, line 50-col. 10, line 36 – service vehicle has wireless system; wireless LAN system; system processes data from the vehicle which is obtained from the container).

Furthermore, the data identifying type of information is non-functional descriptive data.

When presented with a claim comprising descriptive material, an Examiner must determine whether the claimed nonfunctional descriptive material should be given patentable weight. The Patent and Trademark Office (PTO) must consider all claim limitations when determining patentability of an invention over the prior art. *In re Gulack*, 703 F.2d 1381, 1385, 217 USPQ 401,404 (Fed. Cir. 1983). The PTO may not disregard claim limitations comprised of printed matter. *See Gulack*, 703 F.2d at 1384-85, 217 USPQ at 403; *see also Diamond v. Diehr*, 450 U.S. 175, 191, 209 USPQ 1, 10 (1981). However, the examiner need not give patentable weight to descriptive material absent a new and unobvious functional relationship between the descriptive material and the subset. *See In re Lowry*, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994); *In re Ngai*, 367 F.3d 1336, 1338, 70 USPQ2d 1862, 1863-64 (Fed. Cir. 2004). Thus, when the prior art describes all the claimed structural and functional relationships between the descriptive material and the subset, but the prior art describes a different descriptive material than the claim, then the descriptive material is nonfunctional and will not be given any patentable weight. That is, such a scenario presents no new and unobvious functional relationship between the descriptive material and the subset.

The Examiner asserts that the data identifying type of information adds little, if anything, to the claimed acts or steps and thus do no serve as limitations on the claims to distinguish over the prior art. MPEP 2106IV b 1(b) indicates that "nonfunctional descriptive material" is material "that cannot exhibit any functional interrelationship with the way the steps are performed". Any differences related

merely to the meaning and information conveyed through data, which does not explicitly alter or impact the steps is non-functional descriptive data. The subjective interpretation of the data does not patentably distinguish the claimed invention.

14. **With respect to claims 10, 14 and 23:** Kasik teaches the portable unit is adapted to require predetermined operator input for a first operation to release the operator to perform a next operation. (col. 6, lines 32-43; col. 6, line 44-col. 8, line 65 - after collection flag automatically returns to original position; data regarding collection is inputted into system).

15. **With respect to claims 11 and 19:** Kasik teaches the portable unit is adapted to output an invoice for a customer at the customer site relative to the waste removal. (col. 5, lines 5-19; col. 7, lines 5-64; col. 9, lines 14-63; col. 10, lines 3-12, 27-67 – data obtained and transmitted from service vehicle at collection site; containers are marked and can contain barcodes; markings can be read to provide customer address; container flag position and collection frequency factor into labor costs; data collected used to bill customers; data collected is processed by the waste collection system).

16. **With respect to claim 12:** Kasik teaches:

- i. tracking a location of a waste storage unit;
- ii. billing a customer associated with a waste removal; and
- iii. paying personnel for services associated with the waste removal;

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(col. 5, lines 5-19; col. 7, lines 5-64; col. 9, lines 14-63; col. 10, lines 3-12, 27-67 – data obtained and transmitted from service vehicle at collection site; containers are marked and can contain barcodes; markings can be read to provide customer address; container flag position and collection frequency factor into labor costs; data collected used to bill customers; data collected is processed by the waste collection system) and

b. using an electronic portable unit having a memory, processor, an input element, and an output element, to gather onsite data for the base system, comprising:

- i. allowing an operator to input onsite data at a customer facility into the portable unit from preprogrammed queries regarding the waste removal; and
- ii. generating an output of the data to the base system for processing.

(col. 7, lines 35-67; col. 8, lines 16-65; col. 9, line 50-col. 10, line 36 – service vehicle has wireless system; wireless LAN system; system processes data from the vehicle which is obtained from the container).

17. **With respect to claim 15:** Kasik teaches scanning input information into the portable unit regarding a waste storage unit. (col. 7, lines 5-23 – containers can have barcode markings/labels that can be accessed and read).

18. **With respect to claim 18:** Kasik teaches accepting an electronic manifest into the portable unit. (col. 5, lines 5-18; col. 6, lines 44-67; col. 8, lines

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30-47; col. 9, lines 50-62 - system contains pre-programmed information about the customer and site; this information is part of the auditing system used in the refuse collection process containing subscriber information such as name, address or customer number).

19. **With respect to claim 22:** Kasik teaches sharing information between the portable unit and the base system through a wireless interface. (col. 7, lines 35-67; col. 8, lines 16-65; col. 9, line 50-col. 10, line 36 – service vehicle has wireless system; wireless LAN system; system processes data from the vehicle which is obtained from the container).

Claim Rejections - 35 USC § 103

20. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

21. **Claims 2 and 16** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Kasik** in view of **Hassett (US 5,347,274)**.

22. **With respect to claims 2 and 16:** Kasik teaches the limitations in the rejections above. However, Kasik does not teach a waste removal vehicle and a waste storage unit selectively coupled with the waste removal vehicle. Hassett teaches a waste removal vehicle and a waste storage unit selectively coupled

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with the waste removal vehicle. (col. 3, lines 52-62 – “the invention contemplates embodiments adapted to all modes of transport...the term “vehicle” as used in the disclosure and the patent claims herein is to include boat, airplane, truck, rail car or engine, and all other forms of transport vehicle, as well as such tanks, containers or vessels as may demountably attach to or be carried by a transport vehicle”).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine to portable wireless waste removal system of Kasik with the waste removal and storage unit in Hassett because of the need to not only have a system where waste can be kept if disposal is not readily available. It is also necessary to have a system that tracks information related to the waste such as location.

CONCLUSION

23. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heidi Riviere whose telephone number is 571-270-1831. The examiner can normally be reached on Monday-Friday 9:00am-5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Weiss can be reached on 571-272-6812. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Name: Heidi Riviere

/H. R./

Examiner, Art Unit 3689

Signature:

/Janice A. Mooneyham/

Supervisory Patent Examiner, Art Unit 3689

Date:

